

## ABSTRACT OF THE DISCLOSURE

This invention relates to a polymer mixture comprising a polymer which is transparent at a wavelength of more than 300 nm and poly(9,9-XY-fluorene), in which X and Y are independently of each other a straight or branched saturated or unsaturated C<sub>1</sub> – C<sub>12</sub> hydrocarbon chain and the said poly(9,9-XY-fluorene) is substantially dispersed as isolated chains with a high density of isolated chains in the said transparent polymer of not more than 1×10<sup>19</sup> cm<sup>-3</sup>. In particular the mixture of polymethylmethacrylate and poly(9,9-dioctyl-fluorene), a polymer film obtained with that mixture and use of that film as an optical switch are described.